

WHAT IS CLAIMED IS:

1. A server apparatus for providing supplemental information, comprising:
a controller;
5 a storage device operatively connected to said controller;
a receiver/transmitter, adapted for communicating with said controller, for receiving
over a data communication network a request for supplemental information related to a video
program and for receiving synchronization information related to the video program, and for
relaying the request and the synchronization information to said controller; and
10 said storage device in said controller containing a program, adapted to be executed by
said controller, for processing the request for supplemental information, synchronizing the
supplemental information to the video program, and for transmitting the synchronized
supplemental information through said receiver/transmitter over the data communication
network.
15
2. The apparatus according to Claim 1, wherein the supplemental information comprises
audio and visual information recorded on a recording medium.
3. The apparatus according to Claim 2, wherein said storage device contains a database to
20 store the supplemental information, and said program within said storage device is further
adapted to perform database maintenance.
4. The apparatus according to Claim 1, said program is further adapted for receiving
25 program identification information related to the video program and for transmitting the
program identification information through said receiver/transmitter over the data
communication network.

5. The apparatus according to Claim 1, wherein the synchronization information comprises a time-code; and
said program is further adapted to update said time-code at predetermined intervals.

6. The apparatus according to Claim 1, wherein said receiver/transmitter is adapted for receiving additional requests from a requestor to interactively change the requested supplemental information based upon the viewed program; and
said program is further adapted to change and transmit the requested supplemental information in accordance with the additional requests from the requestor.

7. A method for providing supplemental information using a data processing apparatus including a CPU and a storage device operatively connected to the CPU and containing a program adapted to be executed by the CPU for processing a request for the supplemental information related to a video program and providing the requested supplemental information, said method comprising the steps of:
receiving a request for the supplemental information related to the video program;
receiving synchronization information related to the video program;
processing the request for the supplemental information by having the CPU in the data processing apparatus execute the program;
synchronizing the requested supplemental information to the video program using the synchronization information; and
transmitting the requested supplemental information.

8. The method according to Claim 7, wherein the requested supplemental information comprises audio and visual information.

9. The method according to Claim 7, further comprising the step of providing program identification information prior to processing the request.

10. The method according to Claim 7, wherein the synchronization information comprises a time-code which is updated at predetermined intervals.

11. The method according to Claim 7, further comprising the step of:
receiving additional requests to interactively change the requested supplemental information based upon the viewed video program; and
changing the requested supplemental information in accordance with the additional requests.

12. Computer executable process steps, stored on a computer readable medium, for processing a request for supplemental information related to a video program, comprising:

a step to receive a request for the supplemental information;

a step to receive program identification information;

a step to receive synchronization information;

a step to process the program identification information;

a step to retrieve the requested supplemental information in accordance with the program identification information;

a step to synchronize the requested supplemental information to the video program in accordance with the synchronization information; and

a step to output the synchronized requested supplemental information.

13. The computer executable process according to Claim 12, further comprising a step to change the synchronized requested supplemental information based on additional

instructions.

14. The computer executable process according to Claim 12, further comprising the step of verifying that synchronization is maintained with the video program.

15. The computer executable process according to Claim 12, wherein the synchronization information comprises a time-code which is updated at predetermined intervals.

16. A system, comprising:

a display device configured to receive a video program, said video program including an audio component and a visual component, wherein said video program includes synchronization information; and

a data processing apparatus including a CPU and a storage device operatively connected to said CPU, said storage device containing a program, adapted to be executed by said CPU, for transmitting a request for supplemental information relating to said video program, for transmitting information corresponding to said synchronization information, for receiving the supplemental information, and for displaying the supplemental information that is synchronized to said video program in accordance with said synchronization information.

17. The system according to Claim 16, wherein said display device and said data processing apparatus are integrated.

18. The system according to Claim 16, wherein the supplemental information is received via a computer data communication network interface.

19. The system according to Claim 16, wherein said visual component of said video program contains said synchronization information.

20. The system according to Claim 16, wherein the program is further adapted to transmit the request for the supplemental information via a computer network interface to a server, and where said server transmits, in response, the requested supplemental information.

21. The system according to Claim 16, wherein the program is further adapted to transmit program identification information and the synchronization information via a computer network interface.

22. The system according to Claim 16, wherein the program is further adapted to make additional requests to interactively change the supplemental information.

23. The system according to Claim 16, wherein said video program is selected from the group consisting of a live television broadcast and a prerecorded television broadcast.

24. The system according to Claim 16, where said system further comprises a reader, adapted to retrieve data from a computer readable medium, operatively connected to said data processing apparatus, and where the supplemental information is received from said reader which retrieves the supplemental information from said computer readable medium.

25. The system according to Claim 24, wherein said reader is a CD-ROM device.

26. A method for receiving supplemental information related to a video program using a display device for displaying the video program and a data processing apparatus including a

CPU and a storage device operatively connected to the CPU and containing a program adapted to be executed by the CPU for requesting the supplemental information and for displaying the supplemental information, comprising the steps of:

displaying the video program on the display device, where the video program includes
5 an audio component, a visual component and synchronization information;

initiating the program;

requesting the supplemental information;

transmitting information corresponding to the synchronization information from the
video program;

10 receiving the supplemental information synchronized to the video program; and

displaying, via the data processing apparatus, the supplemental information.

27. A method for receiving supplemental information, comprising the steps of:

displaying a video program including an audio component, a visual component and
15 synchronization information;

initiating a computer program adapted to process a request for supplemental
information related to the action and events occurring within the video program;

requesting the supplemental information;

transmitting information corresponding to the synchronization information from the
20 video program;

receiving the supplemental information; and

displaying the requested supplemental information, synchronized to the video
program in accordance with synchronization information.

28. The method according to Claim 27, wherein the visual component of the video
25 program contains program identification information related to the video program.

29. The method according to Claim 27, wherein the visual component of the video program contains the synchronization information.

30. A method according to Claim 29, wherein the synchronization information comprises a time-code that is changed at predetermined intervals and which is used to synchronize the supplemental information to the video program.

31. The method according to Claim 27, further comprising the step of making additional requests to change, interactively, the requested supplemental information.

32. A method of receiving supplemental information related to a video program that includes an audio component and a visual component, comprising the steps of:

- viewing the video program;
- receiving program identification information and synchronization information related to the video program;
- requesting the supplemental information;
- providing the synchronization information and program identification information;
- receiving the supplemental information; and
- viewing supplemental information while the video program is in progress.

33. A method according to Claim 32, wherein the step of receiving synchronization information comprises receiving a time-code which is updated at predetermined intervals.

34. A method according to Claim 32, further including the step of paying for the supplemental information.

35. A method according to Claim 34, wherein the step of paying for the supplemental information is accomplished by a credit card transaction.

36. A method according to Claim 34, wherein said step of paying for the supplemental information is performed through payment of a service statement.

37. A method according to Claim 32, further comprising the step of making additional requests to change the requested supplemental information.

38. A method according to Claim 32, further comprising the step of initiating a computer application program for processing the request for supplemental information made in said requesting step.

39. A system, comprising:

a data processing apparatus including a CPU and a memory operatively connected to said CPU;

said memory containing a first program, adapted to be executed by said CPU, for requesting supplemental information related to a video program, for transmitting synchronization information related to the video program, for receiving the requested supplemental information via a data communication network, and for displaying the supplemental information;

a server including a controller and a storage device operatively connected to said controller; and

said storage device contains a second program, adapted to be executed by the controller, for processing the request for supplemental information, for receiving synchronization information, for synchronizing the supplemental information to the video

program, and for transmitting the synchronized supplemental information through the data communication network to said data processing system.

40. A method for providing supplemental information related to a video program using a data processing apparatus including a CPU and a memory operatively connected to the CPU and containing a first program adapted to be executed by the CPU for requesting the supplemental information, and a server including a controller and a storage device operatively connected to the controller containing a second program adapted to be executed by the controller for processing the request for the supplemental information, comprising the steps of:

initiating the first program;

requesting the supplemental information;

transmitting synchronization information related to the video program to the server;

processing the request for the supplemental information by having the controller in the server execute the second program;

synchronizing the requested supplemental information to the video program using the synchronization information;

receiving, by the data processing apparatus, the synchronized supplemental information; and

displaying, by the data processing apparatus, the synchronized supplemental information.

41. A method for receiving supplemental information, comprising the steps of:

initiating a computer program;

receiving program identification information and synchronization information related to a video program;

processing the program identification information and the synchronization information;
receiving the supplemental information synchronized to the events and action of the
video program; and
displaying the supplemental information.

5
42. A system, comprising:

a display device configured to receive a video program, said video program including
an audio component, a visual component and synchronization information;

10 a server including a controller and a storage device operatively connected to said
controller;

15 said storage device contains a first program, adapted to be executed by said controller,
for processing a request for supplemental information related to said video program, for
receiving information corresponding to said synchronization information, for synchronizing
the supplemental information to said video program, and for transmitting the synchronized
supplemental information through a data communication network;

a data processing apparatus including a CPU and a memory operatively connected to
said CPU; and

20 said memory containing a second program, adapted to be executed by said CPU, for
requesting the supplemental information from said server, for transmitting information
corresponding to said synchronization information to said server, for receiving the
supplemental information via the data communication network, and for displaying the
supplemental information synchronized to said video program.

25 43. A method for providing supplemental information related to a video program using a
display device for displaying the video program, a data processing apparatus including a
CPU and memory operatively connected to the CPU and containing a first program adapted

to be executed by the CPU for requesting the supplemental information, and a server including a controller and a storage device operatively connected to the controller containing a second program adapted to be executed by the controller for processing the requests, comprising the steps of:

5 displaying the video program on the display device, where the video program includes an audio component, a visual component and synchronization information;
initiating the first program;
requesting the supplemental information;
transmitting information corresponding to the synchronization information from the
10 video program to the server;
processing the request for the supplemental information by having the controller in the server execute the second program;
synchronizing the requested supplemental information to the video program using the information transmitted in said transmitting step;
15 receiving, by the data processing apparatus, the synchronized supplemental information; and
displaying, by the data processing apparatus, the synchronized supplemental information.

20 44. An article, comprising:

a recording medium having recorded thereon a visual component and an audio component for display on at least one display device; and

synchronization information recorded on said recording medium for display on at least one display device, said synchronization information adapted to synchronize supplemental
25 visual and audio information not recorded on said recording medium to said visual and audio components.

45. The article according to Claim 44, wherein said synchronization information comprises a time-code changed at predetermined intervals.

5 46. A signal containing information for requesting supplemental information relating to broadcast program information conveyed by the signal, comprising:

a broadcast program including a visual component and an audio component for transmission to at least one display device; and

10 program identification information and synchronization information included as part of said video component, said program identification information including a code for identifying said program, said synchronization information for synchronizing the supplemental information with the said program,

wherein said synchronization information is representative of the amount of time elapsed from the start of said broadcast program.